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(74) Agents: REES, David, Christopher et al.; Kilburn &  
Strode, 20 Red Lion Street, London WC1R 4PJ (GB).

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(71) Applicants (*for all designated States except US*):  
STATOIL ASA [NO/NO]; N-4035 Stavanger (NO).  
PETROSA [ZA/ZA]; 2 Portwood Square, Dock Road V  
& A Waterfront, Waterfront, Cape Town 8001, Private Bag  
X1, Waterfront 8002 (ZA).

(71) Applicant (*for IS only*): REES, David, Christopher  
[GB/GB]; c/o Kilburn & Strode, 20 Red Lion Street,  
London WC1R 4PJ (GB).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): RYTTER, Erling  
[NO/NO]; Steinasen 19, N-7049 Trondheim (NO). ERI,  
Sigrid [NO/NO]; Markaplassen 19, N-7054 Ranheim  
(NO). SCHANKE, Dag [NO/NO]; Nordslettveien 49,  
N-7038 Trondheim (NO).

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ning of each regular issue of the PCT Gazette.*

(54) Title: FISCHER-TROPSCH CATALYSTS

(57) Abstract: A catalyst for use in a Fischer-Tropsch synthesis reaction which comprises cobalt supported on alumina, in which:  
the catalyst average particle size is in the range 20 to 100  $\mu\text{m}$ ; the specific surface area of the impregnated and calcined catalyst  
particles is greater than 80  $\text{m}^2/\text{g}$ ; the average pore size of the impregnated and calcined catalyst is at least 90Å (9nm); and the pore  
volume of the impregnated and calcined catalyst is greater than 0.35  $\text{cm}^3/\text{g}$ .

WO 2004/043596 A3

# INTERNATIONAL SEARCH REPORT

International Application No

PC 03/04873

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B01J35/10 B01J35/02 B01J23/75 C07C1/04

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B01J C07C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 736 326 A (SASTECH PTY LTD) 9 October 1996 (1996-10-09) cited in the application page 3, lines 13-31; figures 2,3; examples 60-65	1-57
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A	----- US 5 639 798 A (CARR NORMAN L ET AL) 17 June 1997 (1997-06-17) the whole document ----- -/-	1-57



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

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European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Jourdan, A

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 1 129 776 A (INST FRANCAIS DU PETROL ;ENITECNOLOGIE SPA (IT); ENI SPA (IT); AGI) 5 September 2001 (2001-09-05) the whole document	1-57
A	----- WO 00/20116 A (BERGE PETER JACOBUS VAN ;LOOSDRECHT JAN VAN DE (ZA); SIGWEBELA BUL) 13 April 2000 (2000-04-13) the whole document	1-57
P,A	----- WO 02/089978 A (SUD CHEMIE INC) 14 November 2002 (2002-11-14) the whole document -----	1-57

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/GB 03/04873

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-57

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-57

catalyst comprising cobalt on alumina and its use in  
Fischer-Tropsch synthesis of hydrocarbons  
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2. claims: 58-63

catalyst support defined by particle size and pore size  
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# INTERNATIONAL SEARCH REPORT

Information on patent family members

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PCT/JP 03/04873

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Intern  
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Application No  
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